

WORKSHEET No. 1 - IMPERVIOUS SURFACE AREA CALCULATION

BARRON COUNTY ZONING OFFICE • 335 E MONROE AVE, ROOM 2104, BARRON, WI 54812 • 715-537-6375 • www.barroncountywi.gov

These impervious surface area calculations are required per Section 17.41(7) of the Barron County Land Use Ordinance. The County impervious surface standards apply to the construction, reconstruction, expansion, replacement or relocation of **ANY** impervious surface on a waterfront lot or parcel and any non-waterfront lot or parcel that is located entirely within 300 feet of the ordinary highwater mark of any navigable lake, pond, flowage or waterway. An impervious surface is an area that releases, as runoff, all or a majority of the precipitation that falls on it. An **IMPERVIOUS SURFACE AREA** includes all of the following:

- Roofs of all Buildings/Structures (homes/garages/sheds/carports etc.)
- Patios constructed with pavers/stone/concrete/blacktop/etc.
- Driveways, Sidewalks, Walkways and Stairways constructed with wood/stone/pavers/gravel/concrete/blacktop/etc.
- Compacted Parking Areas
- Decks and Porches (covered and uncovered)

...**plus** private/easement road surfaces and any other surface/material that is determined by Zoning staff to be impervious. An impervious surface (area) **excludes** grassed and/or other vegetated areas, frozen soil, public road surfaces and certain private roads or other surfaces that are specifically listed as exempted in the Ordinance.

To complete this worksheet you will need to provide the dimensions and area calculations for **ALL** impervious surfaces on your lot that are located (or to be located) within 300 feet of the ordinary highwater mark (edge of the water) of a navigable lake, pond, flowage or waterway. If additional space is required, please attach separate sheet(s) with the applicable dimensions and area calculations shown.

1 Is your property a waterfront lot? (*Waterfront means directly abutting/adjacent to a lake, river or other navigable waterway/waterbody*)
☐ **NO**, go to line 3. ☐ **YES**, go to line 2.

2 Will any part of your proposed construction project (impervious surface area) be located within 300 feet of the water?
☐ **NO**, go to line 38. ☐ **YES**, go to line 4.

3 Is your **entire** lot located within 300 feet of the water?
☐ **NO**, go to line 38. ☐ **YES**, go to line 4.

4 Is your property a vacant, undeveloped lot (*i.e., no existing impervious surfaces present*)?
☐ **NO**, go to line 5. ☐ **YES**, enter "0" (zero) on line 15, then go to line 17.

5 Complete **Table 1: PreConstruction (Existing) Shoreland Impervious Surface Area** (lines 5 thru 15) calculations below.

TABLE 1
PRE-CONSTRUCTION (EXISTING) SHORELAND IMPERVIOUS SURFACE AREA

- Calculate **ONLY** the impervious surface areas that are currently on your property, that are located "*Within the Shoreland*" of your lot.
NOTE: The "Shoreland" area of your property encompasses all of the land area from the water's edge to a point 300 feet landward.
- **DO NOT** include impervious surface areas that are located "*Outside of the Shoreland*" (*i.e., More than 300 feet from the water*).

Existing Structure or Surface	Width (ft.)	x	Length (ft.)	=	Area (sq. ft.)
5 House (roof area)..... (or other principal structure)...		x		=	5a
		x		=	5b
		x		=	5c
6 Deck.....		x		=	6a
		x		=	6b
7 Patio (area).....		x		=	7a
		x		=	7b
8 Porch.....		x		=	8a
		x		=	8b
9 Garage (roof area).....		x		=	9a
		x		=	9b
10 Shed (roof area).....		x		=	10a
		x		=	10b
		x		=	10c
11 Sidewalk/Stairway (area).....		x		=	11a
		x		=	11b
12 Driveway (area).....		x		=	12a
		x		=	12b
13 Compacted parking area.....		x		=	13a
		x		=	13b
14 Other.....		x		=	14a
		x		=	14b
15 Add lines 5 thru 14. This is your Pre-Construction (Existing) Impervious Surface Area.....					15
16 Required Pre-Construction Site Plan: Attach, to this worksheet, a site plan of your property (either dimensioned or drawn to scale) showing the preconstruction impervious surface areas listed in Table 1 above. Label this set of plans Pre-Construction Impervious Surface Area.					

⇒ ⇒ ⇒ **PROCEED TO PAGE 2** ⇒ ⇒ ⇒

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17 Complete **Table 2: Post-Construction Shoreland Impervious Surface Area** (lines 18 thru 28) calculations below.

TABLE 2
POST-CONSTRUCTION (EXISTING + NEW – REMOVED) SHORELAND IMPERVIOUS SURFACE AREA

- Calculate **ONLY** the impervious surface areas that will be located *“Within the Shoreland”* of your lot, after project completion.
NOTE: The “Shoreland” area of your property encompasses all of the land area from the water’s edge to a point 300 feet landward.
- **DO NOT** include impervious surface areas that are located *“Outside of the Shoreland”* (i.e., **More than 300 feet** from the water).
- For a totally new structure or surface (e.g., house, deck, patio, etc.) or for an addition to an existing structure or surface, you must enter/calculate the new width, length and area values for that particular structure/surface or addition in their applicable columns below
- “Post-Construction” refers to all impervious surfaces that will exist once your proposed project is completed. Do not include structures/surfaces or portions of structures/surfaces that will be removed from the property.

Post-Construction (Existing + New – Removed) Structure or Surface	Width (ft.)	x	Length (ft.)	=	Area (sq. ft.)	
18 House (roof area).....		x		=		18a
(or other principal structure)...		x		=		18b
.....		x		=		18c
.....		x		=		18d
.....		x		=		18e
.....		x		=		18f
19 Deck.....		x		=		19a
.....		x		=		19b
.....		x		=		19c
.....		x		=		19d
20 Patio (area).....		x		=		20a
.....		x		=		20b
.....		x		=		20c
21 Porch.....		x		=		21a
.....		x		=		21b
.....		x		=		21c
22 Garage (roof area).....		x		=		22a
.....		x		=		22b
.....		x		=		22c
23 Shed (roof area).....		x		=		23a
.....		x		=		23b
.....		x		=		23c
.....		x		=		23d
.....		x		=		23e
24 Sidewalk/Stairway (area).....		x		=		24a
.....		x		=		24b
.....		x		=		24c
25 Driveway (area).....		x		=		25a
.....		x		=		25b
.....		x		=		25c
26 Compacted parking area.....		x		=		26a
.....		x		=		26b
.....		x		=		26c
27 Other.....		x		=		27a
.....		x		=		27b
.....		x		=		27c
.....		x		=		27d
28 Add lines 18 thru 27. This is your Post-Construction (Existing + New – Removed) Impervious Surface Area...						28
29 Required Post-Construction Site Plan: Attach, to this worksheet, a site plan of your property (either dimensioned or drawn to scale) showing the postconstruction impervious surface areas listed in Table 2 above. Label this set of plans Post-Construction Impervious Surface Area.						

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30 Compare line 28 to line 15.

If Line 28 is less than or equal to line 15, go to line 38.

If line 28 is greater than line 15, go to line 31.

31 Enter the acreage of your property, excluding land within a public road right-of-way.....
(Must be in acres) Call the Zoning Office if you need assistance determining actual lot size.

31

32 Multiply line 31 by 43,560. This is your lot size in square feet.....

32

33 Multiply line 28 by 100.....

33

34 Divide line 33 by line 32. This is your **PERCENT IMPERVIOUS SURFACE** ⇨ ⇨ ⇨ ⇨ ⇨ ⇨ ⇨ ⇨

%

34

Round to nearest whole number

☐ **LINE 34 IS LESS THAN OR EQUAL TO 15%** - Go to line 35.

☐ **LINE 34 IS GREATER THAN 15% BUT LESS THAN OR EQUAL TO 30%** - Go to line 36.

☐ **LINE 34 IS GREATER THAN 30%** - Go to line 37.

35 Your proposed project complies with the impervious surface standards of Section 17.41(7) of the Barron County Land Use Ordinance – Go to line 38.

36 **Option 1:** Your County Land Use Permit cannot be issued by this department **Until** the property owner develops, submits, agrees to and records a County approved **Mitigation Plan** that meets the standards set forth in Section 17.41(11) of the Barron County Land Use Ordinance. **You also need to submit/complete Worksheet No. 2 (Mitigation Plan), along with all necessary additional documents to this office for review and approval.** Note: The review and approval process typically requires a site visit by Zoning staff.

Option 2: See Section 17.41(7)(e) of the Barron County Land Use Ordinance. Impervious surfaces that can be documented to show they are effectively treated with a device or devices such as stormwater ponds, constructed wetlands, infiltration basins, rain gardens, or other engineered systems are excluded from the impervious surface calculations. Note: In order for a device to be proven that it will effectively treat an impervious surface, an engineering plan drafted by a professional engineer must be submitted to this office for review and approval.

Go to line 38

37 **Option 1:** Your project exceeds the maximum amount (percent) of impervious surface area allowed by the Barron County Land Use Ordinance and thus your Land Use Permit **Cannot Be Issued** by this department as proposed. Please contact our office to discuss your options regarding this matter [See office contact information below].

Option 2: See Section 17.41(7)(e) of the Barron County Land Use Ordinance. Impervious surfaces that can be documented to show they are effectively treated with a device or devices such as stormwater ponds, constructed wetlands, infiltration basins, rain gardens, or other engineered systems are excluded from the impervious surface calculations. Note: In order for a device to be proven that it will effectively treat an impervious surface, an engineering plan drafted by a professional engineer must be submitted to this office for review and approval.

Go to line 38

38 Complete the information below and submit this form (with site plans, when required) with your Land Use Permit application and any other applicable worksheet to the Barron County Zoning Office for review and approval.

Tax Parcel I.D. # _____ Site Address (if applicable) _____

Property Owner (Print) _____ Daytime Phone (_____) _____ – _____

Person completing this form (Print) _____ Daytime Phone (_____) _____ – _____

☐ Same as Property Owner

Signature of **PROPERTY OWNER** _____ Date _____

NOTE: THIS FORM/WORKSHEET IS SUBJECT TO REVIEW AND APPROVAL BY THE:

BARRON COUNTY ZONING OFFICE

335 E MONROE AVE, ROOM 2104, BARRON, WI 54822

PHONE: (715) 537-6375 (MONDAY-FRIDAY 8:00AM TO 4:30PM)

WEBSITE: WWW.BARRONCOUNTYWI.GOV